



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE


CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 012221
CERTIFICATION DATE: November 22, 2013
DATE RECERTIFICATION DUE: May 21, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

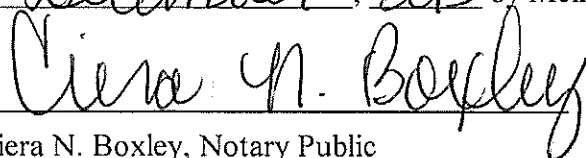


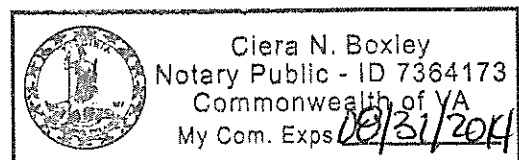
Melissa Kennedy


Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of
December, 2013 by Melissa Kennedy


Ciera N. Boxley, Notary Public



 My commission expires: August 31, 2014

Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 11/25/2013

DBH

MSK

Instrument Serial Number: 012221 As of 25-Nov-13

Maintenance Date	Certification Date	Technician Initials	Remarks
22-Nov-13	22-Nov-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
05-Jun-13	05-Jun-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
20-Dec-12	20-Dec-12	DBH (21250)	CERTIFIED.
10-Jul-12	10-Jul-12	SED (24178)	CERTIFIED.
08-Jun-12	08-Jun-12	DBH (21250)	CERTIFIED
25-May-12	25-May-12	TLN (25387)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH

NBL

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 012221 Worksheet Start Date 11/22/2013

Location Middle River Regional Jail

Address 350 Technology Dr Verona VA 24482

DFS Technician Donald Hall License No. 21250

☐ Laboratory ☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒ ☐

2 Environment free from contaminants

☒ ☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒ ☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

7 Room Condition:

The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no.	New serial no.	Supplies	
E-Seek		Mouthpieces	50
Keyboard		Certificates of Analysis	50
Printer		Operator Worksheet	50
UPS		Other:	

Maintenance (if any)

Firmware/software upgrade.

Comments (if any)

Instrument Serial Number	012221	Certification Date	11/22/2013
Instrument Barometer (mm HG)	729	Reference Barometer (mm HG)	733
Reference Barometer(RB)Serial #	009109	RB Calibration Due	8/1/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.239
0.250	0.239	0.231	0.246	Sample 2	0.239
Precision		sample min	sample max	Sample 3	0.239
0		0.239	0.239		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.144
0.150	0.144	0.139	0.148	Sample 2	0.144
Precision		sample min	sample max	Sample 3	0.144
0		0.144	0.144		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.078
0.080	0.077	0.074	0.080	Sample 2	0.078
Precision		sample min	sample max	Sample 3	0.078
0		0.078	0.078		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.018
0.020	0.019	0.016	0.022	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.018
0		0.018	0.018		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated ☒ Certified ☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.) AG230501-34

☒ Measurement Assurance Check ☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.097
0.100	0.096	0.093	0.099	Sample 2	0.097
Precision		sample min	sample max	Sample 3	0.097
0		0.097	0.097		

DFS Technician Donald B Hall Date 11/25/13

Issuing Analyst Melissa Kennedy Date 12/1/13

DBH
WHL




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/22/2013
TEST EQUIPMENT NUMBER 012221		

RESULTS: TIME SAMPLE TAKEN 10:13 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 22 Nov 2013 at 10:47

TLN
DBH

WJL

Test Results

Instrument Serial Number 012221

Test # 000333 Subject Test

Test Location 1 Department of
Test Date 22 Nov 2013

Test Location 2 Forensic Science
Test Time 10:07
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 22 Nov 2013 End Time 10:14

Result Time 10:13

Result Date 22 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:07

Data Type BLK

Sample Value 0.000

Sample Time 10:08

Data Type CHK

Sample Value 0.096

Sample Time 10:09

Data Type BLK

Sample Value 0.000

Sample Time 10:10

Data Type SUBJ

Sample Value 0.000

Sample Time 10:10

Data Type BLK

Sample Value 0.000

Sample Time 10:11

Data Type SUBJ

Sample Value 0.000

Sample Time 10:13

Data Type BLK

Sample Value 0.000

Sample Time 10:14

Standard Type Dry Gas Std

Standard Value 0.096

Standard Lot Number AG230501-34

Standard Expiration Date 10/31/2014

Tank Pressure 884

Barometric Pressure 729 mmHg

Blow Sample Number 1 Blow Duration 3.25 sec

Blow Volume 1751 cc End-of-Blow Time 10:10

Blow Sample Number 2 Blow Duration 3.48 sec

Blow Volume 1761 cc End-of-Blow Time 10:13

Tamper Evident Stamp 60509253

Test Status Code 0

Test Status Success

Intox EC/IR-II: Accuracy Check

DBH

Department of Forensic Science

MSL

Serial Number: 012221 Test Number: 334

Test Date: 11/22/2013 Test Time: 10:16 EST

Dry Gas Target: 0.096

Lot Number: AG230501-34 Exp Date: 10/31/2014

Tank Pressure: 879 psi Barometric Pressure: 729 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:16
CHK	0.096	10:17
BLK	0.000	10:19
CHK	0.096	10:19
BLK	0.000	10:21
CHK	0.096	10:21

Test Status: *Success*

Calibration CRC: 4BE9ECF2

DBH

Intox EC/IR-II: Accuracy Check

Adl

Department of Forensic Science

Serial Number: 012221 Test Number: 335

Test Date: 11/22/2013 Test Time: 10:24 EST

Dry Gas Target: 0.287

Lot Number: AG322702-07 Exp Date: 08/15/2015

Tank Pressure: 482 psi Barometric Pressure: 728 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:25
CHK	0.286	10:26
BLK	0.000	10:27
CHK	0.286	10:28
BLK	0.000	10:29
CHK	0.286	10:30

Test Status: *Success*

Calibration CRC: 4BE9ECF2

Intox EC/IR-II: Certification

Department of Forensic Science
Serial Number: 012221 Test Number: 336
Test Date: 11/22/2013 Test Time: 10:33 EST

Technician Initials: DBH
Dry Gas Target: 0.096
Lot Number: AG230501-34 Exp Date: 10/31/2014
Tank Pressure: 865 psi Barometric Pressure: 728 mmHg

Test	g/210L	Time
DIAG	Pass	10:33
BLK	0.000	10:34
CHK	0.096	10:35
BLK	0.000	10:36
CHK	0.095	10:36
BLK	0.000	10:38
CHK	0.095	10:38
BLK	0.000	10:39

Success

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

PERFORMED ONE-POINT CERTIFICATION IN PREPARATION
FOR FIRMWARE/SOFTWARE UPGRADE DUE TO CERTIFICATION
WARNING ON DISPLAY.

DBH
11/22/13

DBH

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 012221

System Date: 11/22/2013

System Time: 11:04 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

MSH

Intox EC/IR-II: Calibration

DBH

Department of Forensic Science

Serial Number: 012221 Test Number: 337

Test Date: 11/22/2013 Test Time: 11:06 EST

Dry Gas Target: 0.096

Lot Number: 0651210013-05 Exp Date: 04/01/2014

Tank Pressure: 360 psi Barometric Pressure: 727 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:07
CAL	0.096	11:07

Test Status: *Success*

Calibration CRC: 719D940F

Pass

Intox EC/IR-II: Certification

DBH

Department of Forensic Science

Serial Number: 012221 Test Number: 338

Test Date: 11/22/2013 Test Time: 11:11 EST

MJL

Technician Initials: DBH

Dry Gas Target: 0.239

Lot Number: 29612250I2-10 Exp Date: 11/01/2014

Tank Pressure: 100 psi Barometric Pressure: 727 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:11
BLK	0.000	11:12
CHK	0.239	11:13
BLK	0.000	11:14
CHK	0.239	11:15
BLK	0.000	11:16
CHK	0.239	11:17
BLK	0.000	11:19

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

DBH

Department of Forensic Science

WHL

Serial Number: 012221 Test Number: 339

Test Date: 11/22/2013 Test Time: 11:22 EST

Technician Initials: DBH

Dry Gas Target: 0.144

Lot Number: 2951215012-03 Exp Date: 11/01/2014

Tank Pressure: 536 psi Barometric Pressure: 727 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:22
BLK	0.000	11:23
CHK	0.144	11:23
BLK	0.000	11:25
CHK	0.144	11:26
BLK	0.000	11:27
CHK	0.144	11:28
BLK	0.000	11:29

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

DBH

Department of Forensic Science

NDL

Serial Number: 012221 Test Number: 340

Test Date: 11/22/2013 Test Time: 11:32 EST

Technician Initials: DBH

Dry Gas Target: 0.077

Lot Number: 0651208012-03 Exp Date: 04/01/2014

Tank Pressure: 71 psi Barometric Pressure: 727 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:32
BLK	0.000	11:33
CHK	0.078	11:34
BLK	0.000	11:35
CHK	0.078	11:36
BLK	0.000	11:37
CHK	0.078	11:38
BLK	0.000	11:39

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 012221 Test Number: 341

Test Date: 11/22/2013 Test Time: 11:41 EST

Technician Initials: DBH

Dry Gas Target: 0.019

Lot Number: 0771302011-02 Exp Date: 05/01/2015

Tank Pressure: 889 psi Barometric Pressure: 727 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:42
BLK	0.000	11:43
CHK	0.018	11:43
BLK	0.000	11:45
CHK	0.018	11:45
BLK	0.000	11:47
CHK	0.018	11:47
BLK	0.000	11:49

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

DBH

Intox EC/IR-II: Accuracy Check

WHL

Department of Forensic Science
Serial Number: 012221 Test Number: 342
Test Date: 11/22/2013 Test Time: 11:51 EST
Dry Gas Target: 0.287
Lot Number: AG322702-07 Exp Date: 08/15/2015
Tank Pressure: 473 psi Barometric Pressure: 727 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:52
CHK	0.291	11:53
BLK	0.000	11:55
CHK	0.291	11:56
BLK	0.000	11:57
CHK	0.291	11:58

Test Status: *Success*

Calibration CRC: 719D940F

DBA

Intox EC/IR-II: Accuracy Check

Ask

Department of Forensic Science
Serial Number: 012221 Test Number: 343
Test Date: 11/22/2013 Test Time: 12:00 EST
Dry Gas Target: 0.096
Lot Number: AG230501-34 Exp Date: 10/31/2014
Tank Pressure: 850 psi Barometric Pressure: 727 mmHg
System Check: Passed

Test	g/210L	Time
BLK	0.000	12:01
CHK	0.097	12:02
BLK	0.000	12:04
CHK	0.097	12:04
BLK	0.000	12:06
CHK	0.097	12:06

Test Status: Success

Calibration CRC: 719D940F




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/22/2013
TEST EQUIPMENT NUMBER 012221		

RESULTS: TIME SAMPLE TAKEN 12:16 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 25 Nov 2013 at 12:14

DBH

WHL

Test Results

Instrument Serial Number 012221

Test # 000344 Subject Test

Test Location 1 Department of
Test Date 22 Nov 2013

Test Location 2 Forensic Science
Test Time 12:09
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 22 Nov 2013 End Time 12:17

Result Time 12:16

Result Date 22 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:10

Data Type BLK

Sample Value 0.000

Sample Time 12:10

Data Type CHK

Sample Value 0.097

Sample Time 12:11

Data Type BLK

Sample Value 0.000

Sample Time 12:12

Data Type SUBJ

Sample Value 0.000

Sample Time 12:13

Data Type BLK

Sample Value 0.000

Sample Time 12:14

Data Type SUBJ

Sample Value 0.000

Sample Time 12:16

Data Type BLK

Sample Value 0.000

Sample Time 12:17

Standard Type Dry Gas Std

Standard Value 0.096

Standard Lot Number AG230501-34

Standard Expiration Date 10/31/2014

Tank Pressure 840

Barometric Pressure 727 mmHg

Blow Sample Number 1 Blow Duration 3.55 sec

Blow Volume 1852 cc End-of-Blow Time 12:13

Blow Sample Number 2 Blow Duration 3.81 sec

Blow Volume 1971 cc End-of-Blow Time 12:16

Tamper Evident Stamp 8d07216c

Test Status Code 0

Test Status Success